

OLIFF & BERRIDGE, PLC

ATTORNEYS AT LAW

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April 20, 2009

**U.S. PATENT AND TRADEMARK OFFICE
FACSIMILE TRANSMISSION COVER SHEET**

To: In re the Application of Yoshiyuki SHIRAKAWA et al. Application No.: 10/584,838 Filed: June 27, 2006 For: DIRECTION FINDING RADIATION DETECTOR, AND RADIATION MONITORING METHOD AND APPARATUS	FOR FILING IN THE U.S. PATENT AND TRADEMARK OFFICE Group Art Unit: 2884 Docket No.: 128484 RECEIVED APR 22 2009 Technology Center 2800
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Examiner: Y. GREEN

Facsimile: (703) 308-7124

From: Mike Steger

Prepared By: acd

Number of Pages Sent (Including cover sheet): 14

Comments:

Attached is a filing for the above-mentioned application, containing the following documents:

Corr. Filing Receipt Status Req., copy of date-stamped PTO receipt, copy of Req. for Corr. of PALM records, marked-up copy of Corr. Filing Receipt; Req. for Corr. of NORA, marked-up copy of NORA, copies of 2 Assign. Cover Sheets, and copies of 2 Assigns.

The U.S. Patent and Trademark Office is authorized to debit Deposit Account No. 15-0461 for any fees associated with this response.*Re-transmitting.*Sent by: acd

This facsimile is intended only for the use of the U.S. Patent and Trademark Office and contains confidential information. If you are not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are notified that any review, dissemination, distribution or copying of this facsimile is prohibited. If you have received this facsimile in error, please immediately notify us by facsimile or telephone, and return the facsimile to us by mail at the above address.

PATENT APPLICATION**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the Application of

Yoshiyuki SHIRAKAWA et al.

ATTN: [OIPE] [Mail Stop PCT]

Application No.: 10/584,838

Docket No.: 128484

Filed: June 27, 2006

For: DIRECTION FINDING RADIATION DETECTOR, AND RADIATION
MONITORING METHOD AND APPARATUS

CORRECTED FILING RECEIPT STATUS REQUEST

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

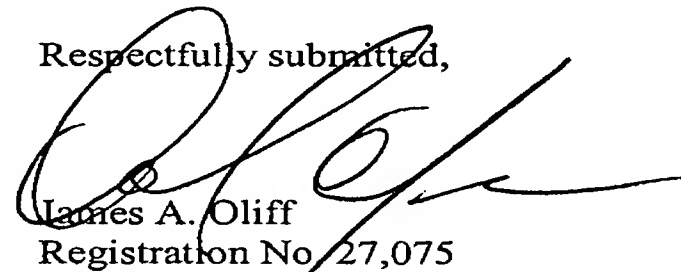
Sir:

A Request for Correction of PALM Records was filed on March 7, 2008. A copy of the Request and a copy of the Patent Office date-stamped acknowledgement receipt are attached hereto.

The corrected Filing Receipt has not yet been received. It is respectfully requested that the corrected Filing Receipt be immediately forwarded to the attorneys of record at the address set forth below.

If there are any questions regarding this matter, please contact the undersigned at the telephone number set forth below.

Respectfully submitted,



James A. Oliff
Registration No. 27,075

Daniel A. Tanner, III
Registration No. 54,734

JAO:MJS/acd

Date: April 20, 2009

OLIFF & BERRIDGE, PLC
P.O. Box 320850
Alexandria, Virginia 22320-4850
Telephone: (703) 836-6400

PTO RECEIPT FOR FILING OF PAPERS**Delivery ▶ Mail Room****The following papers have been filed:**

PCT Trans.; Submission of Sub Dec.; Dec.; Req. Corr. of PALM; Marked-up Filing Receipt.

Name of Applicant:	Yoshiyuki SHIRAKAWA; Toshiya YAMANO
Serial No.:	10/584,838
Attorney File No.:	128484
Title:	Direction Finding Radiation Detector, and Radiation Monitoring Method and Apparatus
Sender's Initials:	JAO:ABF/krw
Assignee:	NATIONAL INSTITUTE OF RADIOLOGICAL SCIENCES et al.

PATENT OFFICE DATE STAMP

4

**COPY TO BE STAMPED BY PATENT OFFICE
AND RETURNED BY MESSENGER**

PATENT APPLICATION**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the Application of

Attn: OIPE

Yoshiyuki SHIRAKAWA et al.

Group Art Unit: 2884

Application No.: 10/584,838

Docket No.: 128484

Filed: June 27, 2006

For: DIRECTION FINDING RADIATION DETECTOR, AND RADIATION
MONITORING METHOD AND APPARATUS**REQUEST FOR CORRECTION OF PALM RECORDS**Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Attached is a photocopy of the original filing receipt on which errors have been corrected in red. These errors are being brought to the attention of the Patent and Trademark Office so that it may correct its records.

Respectfully submitted,

James A. Oliff
Registration No. 27,075Andrew B. Freistein
Registration No. 52,917

JAO:ABF/krw

Date: March 7, 2008

OLIFF & BERRIDGE, PLC
P.O. Box 320850
Alexandria, Virginia 22320-4850
Telephone: (703) 836-6400

DEPOSIT ACCOUNT USE AUTHORIZATION Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461
--



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY DOCKET NO	TOT CLAIMS	IND CLAIMS
10/584,838	06/27/2006	2884	900	128484	9	1

25944

OLIFF & BERRIDGE, PLC

P.O. BOX 320850

ALEXANDRIA, VA 22320-4850

CONFIRMATION NO. 3451

CORRECTED FILING RECEIPT



OC000000026886932

Date Mailed: 11/26/2007

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections

Applicant(s)

Yoshiyuki Shirakawa, Chiba, JAPAN; *Toshiya Yamano, Tokyo, JAPAN*

Assignment For Published Patent Application

National Institute of Radiological Sciences, Chiba-shi, JAPAN

Aloka Co., Ltd., Tokyo, JAPAN

Power of Attorney: The patent practitioners associated with Customer Number 25944

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP2006/300148 01/10/2006

Foreign Applications

JAPAN 2005-014578 01/21/2005

If Required, Foreign Filing License Granted: 06/21/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 10/584,838**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No

Title

Direction Finding Radiation Detector, and Radiation Monitoring Method and Apparatus

Preliminary Class

250

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process simplifies the filing of patent applications on the same invention in member countries, but **does not** result in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as

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This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

PATENT APPLICATION**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the Application of
Yoshiyuki SHIRAKAWA et al.

Application No.: 10/584,838

**MAIL STOP ASSIGNMENT
RECORDATION SERVICES**

Filed: June 27, 2006

Docket No.: 128484

For: DIRECTION FINDING RADIATION DETECTOR, AND RADIATION
MONITORING METHOD AND APPARATUS

**REQUEST FOR CORRECTED NOTICE OF
RECORDATION OF ASSIGNMENT DOCUMENT**

Director of the U.S. Patent and
Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Two Assignment Cover Sheets were filed with the application on June 27, 2006. The Notice of Recordation of Assignment Document omits the second inventor and second assignee.

A copy of the Notice of Recordation of Assignment Document with the corrections noted is attached, along with copies of the recorded Assignments and the Assignment Cover Sheets. The Notice of Recordation of Assignment Document received from the Patent Office on August 8, 2006 contains only one Assignment Cover Sheet. A copy of the second Assignment Cover Sheet, as originally filed, is attached hereto.

Applicant respectfully requests that the Notice of Recordation of Assignment Document be corrected so that the second inventor and second assignee be added as:

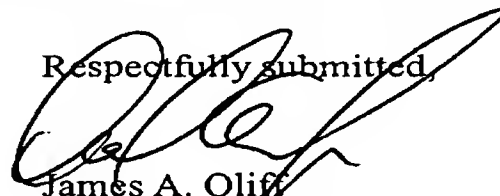
Toshiya YAMANO

Aloka Co., Ltd.
6-22-1, Mure
Mitaka-shi, Tokyo 181-8622
Japan

Please also add the filing date as: 06/27/2006.

As the error was made by the Patent and Trademark Office, it is believed that no fee is due. However, please credit or debit Deposit Account No. 15-0461 as necessary to effect entry of the attached corrections.

Respectfully submitted,



James A. Oliff
Registration No. 27,075

Daniel A. Tanner, III
Registration No. 54,734

JAO:MJS/acd
Date: April 20, 2009

OLIFF & BERRIDGE, PLC
P.O. Box 320850
Alexandria, Virginia 22320-4850
Telephone: (703) 836-6400

<p>DEPOSIT ACCOUNT USE AUTHORIZATION Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461</p>
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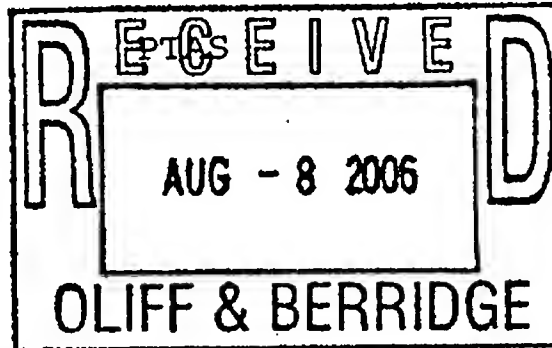


KAM

UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUGUST 01, 2006

JAMES A. OLIFF
OLIFF & BERRIDGE, PLC
P.O. BOX 19928
ALEXANDRIA, VA 22320UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 06/27/2006

REEL/FRAME: 018030/0847
NUMBER OF PAGES: 4BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 128484

ASSIGNOR:

SHIRAKAWA, YOSHIYUKI

Yamano, Toshiya

DOC DATE: 06/01/2006

ASSIGNEE:

NATIONAL INSTITUTE OF RADIOLOGICAL
SCIENCES9-1, ANAGAWA 4-CHOME, INAGE-KU
CHIBA-SHI, CHIBA 263-8555, JAPAN

Aloka Co., Ltd.

6-22-1, Mura

Mitaka-shi, Tokyo 181-8622
Japan

SERIAL NUMBER: 10584838

FILING DATE: 06/27/2006

PATENT NUMBER:

ISSUE DATE:

TITLE: DIRECTION FINDING RADIATION DETECTOR, AND RADIATION MONITORING
METHOD AND APPARATUS

018030/0847 PAGE 2

ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

H/P 581-40

AP20 Rec'd PCT/PTO 27 JUN 2006

Mail-Stop:
Assignment Recordation Services
Director of the U.S. Patent
and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

RECORDATION FORM COVER SHEET
PATENTS ONLYU.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

07-11-2006



Attorney Docket No. 128484

103271597

Please record the attached original document or copy thereof.

1. A. Name of conveying party:

Yoshiyuki SHIRAKAWA

B. Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. A. Name and address of receiving party

NATIONAL INSTITUTE OF
RADIOLOGICAL SCIENCES
9-1, ANAGAWA 4-CHOME, INAGE-KU,
CHIBA-SHI, CHIBA 263-8555
JAPAN

3. A. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other _____

B. Additional name(s) & address(es) attached?

☐ Yes ☒ No

B. Execution Date: June 1, 2006

4. ☒ This document is being filed together with a new application.

A. Patent Application No.(s) _____

B. Patent No.(s) _____

10/584838

Additional numbers attached? ☐ Yes ☒ NoC. Title of Application: DIRECTION FINDING RADIATION DETECTOR AND RADIATION
MONITORING METHOD AND APPARATUS5. Name and address of party to whom correspondence
concerning document should be mailed:

Name: James A. Oliff

Address: OLIFF & BERRIDGE, PLC
P.O. Box 19928
Alexandria, VA 22320

6. Total number of applications and patents involved: 1

7. A. Total fee (37 CFR 3.41).....\$ 40.00

B. Enclosed (Check No. 181365)

8. Credit any overpayment or charge any underpayment to
deposit account number 15-0461.

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of
the original document.James A. Oliff Registration No. 27,075
Jesse O. Collier Registration No. 53,839

Date: June 27, 2006

Total number of pages including cover sheet, attachments, and document: 2

6.27.06

07/06/2006 KAYPAH 00000153 10584838
04 FC:8021

40.00 0P

Mail Stop:
Assignment Recordation Services
Director of the U.S. Patent
and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

RECORDATION FORM COVER SHEET
PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Attorney Docket No. 128484

Please record the attached original document or copy thereof.

1. A. Name of conveying party:

Toshiya YAMANO

B. Additional name(s) of conveying party(ies) attached?
☐ Yes ☒ No

2. A. Name and address of receiving party:

ALOKA CO., LTD.
6-22-1, MURE
MITAKA-SHI, TOKYO 181-8622
JAPAN

3. A. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

B. Execution Date: June 1, 2006

B. Additional name(s) & address(es) attached?
☐ Yes ☒ No

4. ☒ This document is being filed together with a new application.

A. Patent Application No.(s) _____

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☐ No

C. Title of Application: DIRECTION FINDING RADIATION DETECTOR, AND RADIATION
MONITORING METHOD AND APPARATUS

5. Name and address of party to whom correspondence
concerning document should be mailed:

Name: James A. Oliff

Address: OLIFF & BERRIDGE, PLC
P.O. Box 19928
Alexandria, VA 22320

6. Total number of applications and patents involved: 1

7. A. Total fee (37 CFR 3.41).....\$ 40.00

B. Enclosed (Check No. 181366)

8. Credit any overpayment or charge any underpayment to
deposit account number 15-0461.

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.


James A. Oliff Registration No. 27,075
Jesse O. Collier Registration No. 53,839

Date: June 27, 2006

Total number of pages including cover sheet, attachments, and document: 2

(1-8) Insert
Name(s)
of Inventor(s)

(1) Toshiya YAMANO (5) _____
(2) _____ (6) _____
(3) _____ (7) _____
(4) _____ (8) _____

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set over to

(9) Insert Name of
Assignee
(10) Insert Address of
Assignee

(9) ALOKA Co., Ltd.
(10) 6-22-1, Mure, Mitaka-shi, Tokyo 181-8622 Japan

(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, confirmation, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

(11) Insert
Identification
such as Title, Case
Number, or Foreign
Application Number

(11) Direction finding radiation detector, and radiation
monitoring method and apparatus

(Attorney Docket No. 128484)

for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or

(12) Insert Date of
Signing of
Application

(12) on _____

(13) Alternative
Identification for
filed applications

(13) U.S. application Serial Number _____
filed June 27, 2006

1) Each undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.

2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.

5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all Letters Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, assigns and legal representatives.

6) Each undersigned hereby grants the firm of OLIFF & BERRIDGE, PLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	<u>June 1, 2006</u>	Inventor Signature	<u>Toshiya YAMANO</u> (Toshiya YAMANO) (SEAL)
Date	_____	Inventor Signature	_____ (SEAL)
Date	_____	Inventor Signature	_____ (SEAL)
Date	_____	Inventor Signature	_____ (SEAL)
Date	_____	Inventor Signature	_____ (SEAL)
Date	_____	Inventor Signature	_____ (SEAL)
Date	_____	Inventor Signature	_____ (SEAL)
Date	_____	Inventor Signature	_____ (SEAL)